Nvidia Geforce Gt 640m Notebookcheck

Nvidia GeForce GT 640M Notebookcheck: A Detailed Exploration of Performance and Features **nvidia geforce gt 640m notebookcheck** reviews have been a go-to resource for many laptop enthusiasts and casual users alike, especially those looking to understand the capabilities of this mid-range mobile GPU. The Nvidia GeForce GT 640M, once a popular choice in gaming notebooks and multimedia laptops, still holds interest for users curious about its performance, efficiency, and value in today's tech landscape. In this article, we'll delve into the key aspects of the GT 640M, drawing insights from detailed notebookcheck analyses, and provide a comprehensive understanding of what this GPU offers.

Understanding the Nvidia GeForce GT 640M

To appreciate the GT 640M, it's important to place it within Nvidia's lineup and the broader GPU market of its time. Released around early 2012, the GT 640M was designed as an entry-to-mid-level graphics card for laptops, targeting users who wanted decent graphical performance without breaking the bank.

Technical Specifications and

Architecture

The GT 640M is based on the Kepler architecture, which was Nvidia’s step forward in terms of power efficiency and performance compared to the previous Fermi generation. Key technical details include: - CUDA cores: 384 - Base clock speed: Approximately 625 MHz (varies by laptop model) - Memory: Typically 1GB or 2GB of DDR3 or GDDR5 VRAM - Memory interface: 128-bit - DirectX support: DirectX 11 These specs allowed the GT 640M to handle everyday multimedia tasks with ease and even venture into casual gaming territory.

Position in the Mobile GPU Market

Back when it launched, the GT 640M was positioned as a budget-friendly option for gamers on a budget or those needing some graphical muscle for creative applications. It was not designed to run the latest AAA titles at ultra settings, but it could manage older or less demanding games smoothly.

Performance Insights from Nvidia GeForce GT 640M Notebookcheck Reviews

One of the reasons “nvidia geforce gt 640m notebookcheck” is a sought-after phrase is due to Notebookcheck’s reputation for thorough and unbiased hardware testing. Their reviews typically include synthetic benchmarks, gaming tests, power consumption analysis, and thermal performance, providing a 360-degree view of the GPU’s capabilities.

Gaming Performance

According to Notebookcheck benchmarks, the GT 640M performs reasonably well in titles that were popular around its release or those with modest system requirements. For example: - Older games like “Counter-Strike: Global Offensive” and “League of Legends” run smoothly at medium to high settings. - More demanding titles such as “Battlefield 3” or “Skyrim” are playable mostly on low to medium presets at 720p resolution. - Latest AAA games, even from the mid-2010s, often require significant graphics setting reductions to maintain playable frame rates. This makes the GT 640M a decent choice for casual gamers, students, or professionals who occasionally game but don’t demand cutting-edge performance.

Multimedia and Productivity

Beyond gaming, the GT 640M excels in accelerating video playback and some GPU-accelerated applications. Notebookcheck’s tests highlight smooth HD video streaming and decent handling of photo and video editing software, thanks to the Kepler architecture’s efficiency and CUDA support.

Power Efficiency and Thermal Management

One of the standout points in the Nvidia GeForce GT 640M Notebookcheck reports is its balance between performance and power consumption. Kepler’s architecture brought improvements in energy efficiency, which translated to: - Moderate power draw, helping extend battery life in notebooks. - Manageable heat production, allowing for quieter cooling solutions in most laptop

designs. This balance makes it suitable for ultraportable laptops that need some graphical oomph without sacrificing battery longevity.

Comparing the GT 640M with Contemporary Mobile GPUs

When assessing the GT 640M’s relevance today, it’s helpful to compare it to both its contemporaries and modern mobile graphics solutions.

Against Other GPUs from the Same Era

- Nvidia GeForce GT 650M: The GT 650M was a more powerful sibling with higher CUDA core counts and faster memory, enabling noticeably better gaming performance. - AMD Radeon HD 7670M: AMD’s offering in the budget segment, offering competitive performance with slight differences depending on the game and power efficiency. Notebookcheck’s comparative benchmarks often show the GT 640M lagging slightly behind the GT 650M but holding its own against AMD’s mid-range parts.

Modern-Day Perspective

In 2024, the GT 640M might seem dated compared to current mobile GPUs like the Nvidia RTX 30 and 40 series. However, for users with older laptops or those seeking second-hand devices for basic gaming and multimedia, it remains a functional choice. Notebookcheck reviews often emphasize that while the GT 640M won’t handle modern AAA titles well, it’s sufficient for everyday tasks and some light gaming.

Tips for Users Considering Laptops with the Nvidia GeForce GT 640M

If you're browsing through older laptops or budget options featuring the GT 640M, here are some helpful pointers based on Notebookcheck's insights and general GPU knowledge.

1. **Check the memory type and amount:** Laptops with GDDR5 memory tend to offer better performance than those with DDR3 on the GT 640M.
2. **Optimize game settings:** For gaming, stick to lower resolutions (720p) and medium to low graphical settings to ensure smoother frame rates.
3. **Ensure good cooling:** Since thermal throttling can affect performance, choose laptops with efficient cooling systems if possible.
4. **Keep drivers updated:** Nvidia's driver updates can sometimes improve performance and stability even for older GPUs.
5. **Consider your use case:** If you need a laptop primarily for office work, multimedia, and light gaming, the GT 640M is adequate. For heavy gaming or GPU-intensive applications, newer GPUs are recommended.

Understanding the Legacy and Impact of the Nvidia GeForce GT 640M

Looking back, the GT 640M holds a special place as a reliable mid-range GPU that balanced performance, power consumption, and

cost. Notebookcheck’s detailed reviews have helped many users make informed decisions about laptops featuring this GPU, highlighting its strengths and limitations in a practical, user-friendly manner. For budget-conscious buyers or those maintaining older laptops, revisiting the GT 640M through the lens of notebookcheck analyses underscores its relevance even years after its release. It serves as a reminder of how GPU technology has evolved while still offering useful performance for certain users and scenarios. Exploring the performance trends, architectural benefits, and real-world application of the GT 640M through Notebookcheck’s comprehensive testing provides valuable context for anyone interested in mobile graphics history or seeking a capable entry-level GPU solution.

Nvidia GeForce GT 640M Notebookcheck: A Detailed Examination of Performance and Value **nvidia geforce gt 640m notebookcheck** analyses have been pivotal for users seeking reliable insights into this mid-range mobile graphics card. As the laptop GPU market continues to evolve rapidly, understanding where the Nvidia GeForce GT 640M stands in terms of capabilities, efficiency, and practical application is essential for professionals, gamers, and casual users alike. This article delves into the architecture, benchmark results, real-world performance, and comparative positioning of the GT 640M, providing a comprehensive view backed by technical data and user-centric evaluations.

Architectural Overview of the Nvidia GeForce GT 640M

The Nvidia GeForce GT 640M, part of the GeForce 600M series, was introduced during the early 2010s as an entry-level to mid-range graphics solution for notebooks. Built on the Fermi

architecture, it features a 40 nm manufacturing process and incorporates 96 CUDA cores, which at the time offered a balanced blend of power efficiency and graphical capability. With a core clock speed typically around 625 MHz and a memory clock of approximately 900 MHz (effective 1800 MHz for GDDR5 variants), the GT 640M supports DirectX 11 and OpenGL 4.0. It usually comes paired with either DDR3 or GDDR5 memory ranging from 512 MB to 2 GB. This variance in memory type and capacity influences the card's performance and power consumption substantially.

Key Specifications

1. GPU Architecture: Fermi
2. CUDA Cores: 96
3. Core Clock Speed: ~625 MHz
4. Memory: 512 MB – 2 GB GDDR5 or DDR3
5. Memory Interface: 128-bit
6. DirectX Support: 11
7. OpenGL Version: 4.0

Performance Insights from Notebookcheck Benchmarks

When examining the **nvidia geforce gt 640m notebookcheck** benchmarks, it becomes clear that the GPU occupies a niche between basic integrated graphics and more powerful gaming-class GPUs. Notebookcheck's thorough testing reveals that the card performs well in older or less demanding games, but struggles with modern titles at high resolutions or settings. In 3DMark06, a synthetic benchmark often used to gauge gaming readiness, the GT 640M scores around 7,000 points, positioning it below higher-end

mobile GPUs such as the GTX 660M but above integrated graphics solutions like the Intel HD 4000. This performance allows for playable frame rates in games like “BioShock Infinite” or “Skyrim” at medium settings and 720p resolution.

Real-World Gaming Performance

1. **BioShock Infinite:** Approximately 40 FPS at medium settings, 1366x768 resolution.
2. **Skyrim:** Around 35-40 FPS on high settings at 720p.
3. **Counter-Strike: Global Offensive:** Well above 60 FPS at medium/high settings.
4. **Battlefield 4:** Struggles below 30 FPS on low settings, indicating limited suitability.

These practical results underscore the card’s role as a casual gaming GPU rather than a powerhouse for demanding titles. Users seeking smooth experiences in newer AAA games will need to adjust expectations or settings significantly.

Power Consumption and Thermal Performance

One of the notable advantages highlighted in **nvidia geforce gt 640m notebookcheck** reviews is the GPU’s relatively efficient power draw. Designed for notebooks, the GT 640M typically consumes around 35 watts of power, which translates into moderate heat output. This efficiency contributes to longer battery life in laptops and less intensive cooling requirements, allowing manufacturers to design thinner and lighter notebooks without sacrificing too much graphical performance.

Thermal Management in Laptops

While the GT 640M runs cooler than many higher-end GPUs, its thermal footprint varies depending on the specific laptop design, cooling solution, and usage patterns. Notebookcheck's thermal tests report average operating temperatures ranging between 65°C to 80°C under load, which is within acceptable limits for mobile GPUs of its generation. However, users should be aware that prolonged heavy usage can lead to thermal throttling in poorly ventilated systems, affecting sustained performance.

Comparisons with Contemporary and Successor GPUs

The **nvidia geforce gt 640m notebookcheck** data often compares this GPU with its peers and successors to contextualize its performance. Compared to the AMD Radeon HD 7650M or Intel's integrated HD 4000, the GT 640M generally offers better gaming and graphics performance, particularly when equipped with GDDR5 memory. However, newer GPUs like the Nvidia GeForce GT 750M or GTX 860M exhibit significant improvements in both shader counts and clock speeds, translating into superior frame rates and graphical fidelity.

Pros and Cons Summary

1. **Pros:**
    1. Efficient power consumption suitable for ultraportables
    2. Decent performance in older and less demanding games
    3. Support for DirectX 11 and advanced APIs
2. **Cons:**
    1. Limited VRAM capacity and older architecture

2. Struggles with newer AAA titles and high resolutions
3. Outperformed by modern integrated and discrete GPUs

Practical Use Cases and User Recommendations

The GT 640M finds its strongest footing in multimedia consumption, light gaming, and professional applications that do not require heavy GPU acceleration. For users prioritizing battery life and portability over raw power, laptops equipped with the GT 640M can still be a viable choice, especially if paired with efficient CPUs and SSD storage. From a creative standpoint, the GPU manages basic video editing and photo manipulation tasks with relative ease but is not ideal for complex 3D rendering or GPU-intensive workflows.

Choosing a Laptop with the GT 640M Today

For those considering purchasing a laptop with this GPU in the current market, it is crucial to balance expectations. The GT 640M is best suited for:

1. Students and professionals requiring casual gaming and multimedia playback
2. Users on a budget looking for affordable laptops with discrete graphics
3. Systems intended for legacy software compatibility or older game titles

However, buyers aiming for longevity and future-proofing should consider more recent models with improved architectures and

performance profiles. The extensive evaluations available on **nvidia geforce gt 640m notebookcheck** provide a valuable resource for understanding the card's capabilities and limitations. Whether assessing older laptops for upgrades or evaluating second-hand systems, the data helps users make informed decisions based on objective performance metrics and real-world usage scenarios.

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Questions & Answers About nvidia geforce gt 640m notebookcheck

No	Question	Answer
1	What is the Nvidia GeForce GT 640M?	The Nvidia GeForce GT 640M is a mobile graphics card designed for notebooks, offering entry-level performance for gaming and multimedia applications.
2	How does the Nvidia GeForce GT 640M perform according to Notebookcheck?	Notebookcheck rates the Nvidia GeForce GT 640M as an entry-level GPU suitable for older games and basic multimedia tasks but not recommended for modern gaming at high settings.
3	What are the key specifications of the Nvidia GeForce GT 640M?	The GT 640M typically features 96 CUDA cores, a core clock around 625 MHz, and 1GB or 2GB of GDDR5 or DDR3 memory, depending on the notebook model.
4	Is the Nvidia GeForce GT 640M good for gaming?	The GT 640M can handle older or less demanding games at low to medium settings but struggles with newer AAA titles and high graphics settings.
5	What notebooks commonly feature the Nvidia GeForce GT 640M?	The GT 640M was commonly found in mid-range notebooks released around 2012-2013 from brands like Asus, Lenovo, and Dell.
6	How does the Nvidia GeForce GT 640M compare to newer GPUs?	Compared to modern GPUs, the GT 640M is significantly less powerful, lacking support for newer technologies and sufficient performance for current games.

7	Can the Nvidia GeForce GT 640M handle video editing tasks?	The GT 640M can manage basic video editing and playback but may struggle with high-resolution or intensive editing workloads.
8	What are the power consumption and thermal characteristics of the GT 640M?	The GT 640M is designed for mobile efficiency with moderate power consumption and heat output, suitable for notebook cooling solutions.
9	Does the Nvidia GeForce GT 640M support DirectX 11?	Yes, the GT 640M supports DirectX 11, enabling compatibility with many games and applications that require this API version.
10	Where can I find detailed benchmarks and reviews for the Nvidia GeForce GT 640M?	Notebookcheck.net provides comprehensive benchmarks, reviews, and performance analysis for the Nvidia GeForce GT 640M.

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Optimizing learning across devices

To maximize compatibility, users should keep reading apps and operating systems updated. Updated software ensures better performance, security, and support for accessibility features. Regular updates also improve compatibility with newer file formats and interactive elements.

Combining Nvidia Geforce Gt 640m Notebookcheck with other learning resources

Nvidia Geforce Gt 640m Notebookcheck works best when combined with complementary learning resources. Videos, lectures, discussion forums, and practice exercises can reinforce concepts introduced in the text. Digital formats make it easy to integrate multiple resources into a cohesive learning workflow.

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Consistent use of Nvidia Geforce Gt 640m Notebookcheck encourages disciplined study habits. Digital libraries promote organization, while annotations and summaries support active learning. Over time, these practices help learners build a personalized knowledge base that can be revisited and expanded as needed.

Final thoughts on learning with Nvidia Geforce Gt 640m Notebookcheck

Learning with Nvidia Geforce Gt 640m Notebookcheck offers

flexibility, accessibility, and efficiency for modern learners. By using effective study strategies, leveraging accessibility features, downloading content from legal sources, and ensuring device compatibility, users can maximize the educational value of Nvidia Geforce Gt 640m Notebookcheck. When combined with thoughtful organization and complementary resources, Nvidia Geforce Gt 640m Notebookcheck becomes a powerful tool for lifelong learning and knowledge development.